PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket No. 05-434-B)

In re Ap	plication of:)
	Woo Seog Koo) Examiner: TBA
	ional Application No.: PCT/KR2004/01856 plication No.: 10/560,142) Group Art Unit: 2616
	ional Filing Date: July 23, 2004 ng Date: December 9, 2005) Confirmation No. 1170)
For:	Method for Establishing an ATM Traffic Channel Path Between a BSC and a BTS In An EV-DO System)))

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PETITION UNDER 37 C.F.R. § 1.47(b) BY PERSON HAVING PROPRIETARY INTEREST TO FILE APPLICATION ON BEHALF OF INVENTOR

Dear Sir:

Pursuant to 37 C.F.R. § 1.47(b), UTStarcom, Inc., the owner of *UTStarcom Korea Limited*, and the assignee in fact of the above-identified patent application, submits this Petition and respectfully requests the U.S. Patent Office to allow UTStarcom, Inc, to make the Application on behalf of inventor Woo Seog KOO, who we have been unable to locate.

This Petition is being submitted with: (i) a Declaration and Power of Attorney signed by Robert J. Irvine, III, a person authorized by UTStarcom, Inc. to sign on its behalf; (ii) a Statement Establishing Proprietary Interest By Person Signing on Behalf of Nonsigning Inventor and Statement Under 37 C.F.R. § 3.73(b); and (iii) a Declaration in Support of Filing on Behalf of the Nonsigning Inventor.

11/07/2006 ATRAN1 00000120 10560142 01 FC:1463 200.00 OP The last known address of nonsigning inventor Woo Seog Woo, who is a citizen of

Korea, is:

Jugong Apartment 115-303 470 Anheung-dong, Icheon-si

Gyeonggi-do 467-712

Republic of Korea

UTStarcom, Inc. respectfully submits that Woo Seog KOO is unreachable to execute the

Declaration for the present application. Every attempt to obtain his signature has been

unsuccessful. As evidenced by the accompanying declaration of Jiwon Lim, continuous and

diligent efforts have been made to obtain Woo Seog KOO's signature on the declaration for

this case. Based on such diligent efforts to obtain Woo Seog KOO's signatures on the

declaration for this case, we believe that the requirements of 37 C.F.R. § 1.47(b) and MPEP

§ 409.03 have been met.

Filing of the application without Oath or Declaration executed by Woo Seog KOO is

necessary to preserve the rights of Applicant UTStarcom, Inc. Applicant UTStarcom, Inc. will

suffer irreparable harm if not allowed to apply for a patent for the above-referenced

Application because the United States Patent and Trademark Office will hold the present

Application abandoned if it is without an executed Oath or Declaration.

This Petition is being submitted with the fee set forth in 37 C.F.R. § 1.17(g), which is

currently set at \$200.00.

Respectfully submitted,

Date: October 27, 2006

Robert J. Irving, III

Registration No. 41,865

McDonnell Boehnen Hulbert & Berghoff LLP

300 South Wacker Drive, Ste. 3100

Chicago, Il 60606

Tel: 312 913 0001 Fax: 312 913 0002

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PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket No. 05-434-B)

In re App	olication of:)
	Woo Seog KOO) Examiner: TBA
	onal Application No.:	PCT/KR2004/001856 10/560,142) Group Art Unit: 2616)
	onal Filing Date: July ng Date: Dece	Confirmation No. 1170	
(Method For Establisl Channel Path Betwee In An EV-DO System)))	
Mail Sto	n PCT		

DECLARATION IN SUPPORT OF PETITION UNDER 37 C.F.R. § 1.47(b) BY PERSON HAVING PROPRIETARY INTEREST TO FILE APPLICATION ON BEHALF OF INVENTOR

Dear Sir:

Commissioner for Patents

Alexandria, VA 22313-1450

P.O. Box 1450

This Declaration is in support of Petition under 37 C.F.R. § 1.47(b) to allow UTStarcom, Inc. to make the application on behalf of inventor Woo Seog KOO, who we have been unable to locate.

- 1. I, **Jiwon LIM**, am a paralegal at the law firm Kim & Chang.
- 2. I have first-hand knowledge of the facts recited herein.
- 3. This Declaration is in support of U.S. Patent Application entitled "METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN A BSC AND A BTS IN AN EV-

DO SYSTEM," filed in the U.S. Patent Office on December 9, 2005 and bearing U.S. Application No. 10/560,142 and International Application No. PCT/KR2004/001856.

- 3. I am a paralegal at the law firm Kim & Chang, located at Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea.
- 4. Kim & Chang represents UTStarcom Korea Limited, a subsidiary of UTStarcom, Inc.
- 5. I am a citizen of Korea, residing at 840-7 Mia-dong, Gangbuk-gu, Seoul 142-820, Republic of Korea.
- 6. On March 7, 2006, I sent a letter, via content-certified mail, including assignment documents and the Inventor's Declaration of Invention, to Mr. Woo Seog KOO's last known physical address (Jugong Apt. 115-303, 470 Anheung-dong, Icheon-si, Gyeonggido 467-712, Republic of Korea). (See attached Exhibit 1).
- 7. On March 8, 2006, I sent the same letter, with attached assignment documents, to the Mr. KOO's last-known e-mail address (wskoo@msn.com). (See attached Exhibit 2).
- 8. On March 8, 2006, the content-certified package mailed to Mr. KOO was returned due to an incorrect address. (See attached Exhibit 3).
- 9. I searched for Mr. KOO's phone number, but Korea Info Services Corporation confirmed that no number was registered under Mr. KOO's address or name.
 - 10. I have gotten no response to the e-mail sent to Mr. KOO on March 8, 2006.
- 11. I hereby declare that all statements made herein are of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and

the like so made under penalty of perjury and that such willful false statements may jeopardize the validity of the specification or any patent issued thereon.

Respectfully submitted,

Date: Oct. 24, 2006

Jiwon LIM Kim & Chang

Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu,

Seoul 110-786, Korea

EXHIBIT 1

KIM & CHANG

Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea Telephone: (822) 764-8855 / 2122-3900 Fax: (822) 741-0328 / 745-5954 / 763-7434 E-Mail: all@ip.kimchang.com

March 7, 2006

To. Woo Seog Koo (e-mail: wskoo@msn.com)

Jugong Apt. 115-303, 470 Anheung-dong, Icheon-si, Gyeonggi-do 467-712,

Republic of Korea

Re. Declaration and Power of Attorney and Assignment to be filed with U.S. Patent and Trademark Office (U.S. Serial No. 10/560,142)

K&C Ref.: GP048360

I hope your business is prospering.

I am a patent attorney for a law firm, Kim & Chang, and contacting you on behalf of my client UTStarcom Korea Limited.

You had assigned your invention as identified on the next page to your former company in 2002, which was conceived when you were working for Hyundai Electronics Industries, Co., Ltd./ Hyundai Syscomm, Inc. under the provisions of the employee's invention compensation policy of the company. Therefore, the right to receive patent for the invention was transferred to the former company. Recently, the right to receive patent was transferred to our client, UTStarcom Korea Limited, hereinafter referred to as "UTSK" from your former company. With respect to this invention, a Korean patent application was filed and its counterpart U.S. patent application has recently been filed with the U.S. Patent and Trademark Office. According to the U.S. Patent law, the inventor is only entitled to be an applicant for a patent application. Therefore, although the right to receive patent has been transferred to our client, UTSK, the U.S. Patent and Trademark Office requires filing of documents as enclosed herewith which must be signed by the inventor.

With regard to the assignment, please be informed that signing the enclosed assignment does not mean that you newly transfer something another to somebody, it merely means confirming that you had already assigned the right to receive patent in 2003. As for the Declaration, the signing the declaration means that you are declaring that you are the

true and sole inventor of this invention.

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As explained above, I enclose herewith these documents. Please sign and date the marked portions and return them to us via courier, registered mail or whatever is convenient for you. Any costs to be incurred in this connection are surely responsible to our side. Please send us any receipts for payment in return.

Return Address: Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea

Title of Invention: METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN AN BSC AND A BTS IN AN EV-DO SYSTEM

-Contact Person: Manager Hee Jae IM /

Attorney Jee Hong YOON

-Telephone: 02-2122-3822 / 02-2122-

3515

-Mobile: 010-4787-7275

-E-maill: zhjim1@ip.kimchang.com

Attorney Jee Hong YOON (seal)

Enclosure(s)

GWANG WHA MOON POST OFFICE- CONTENTS CERTIFIED MAIL CERTIFICATE NO. 10042201, 2006-03-07

金・張 法律事務所

2006년 3월 7일

수 신: 구우석님

경기도 이천시 안흥동 470 주공아파트 115동 303호 (우. 467-712)

E-mail: wskoo@msn.com

제 목: 미국 특허청 제출용 서명서류 송부의 건 (U.S. Serial No. 10/560,142)

당소 정리 번호 : GP048360

귀하의 사업에 무궁한 발전을 기원합니다.

당소는 유티스타콤 코리아 유한회사의 대리인인 김&장 특허법률사무소입니다.

귀하께서는 2002년도에 현대전자산업 주식회사/현대시스콤 재직 중에 개발하신 아래의 발명에 대한 권리를 당시 소속회사의 직무발명 양도규정에 따라 소속회사에 양도하였으며, 현재이 발명에 대해 특허를 받을 수 있는 권리는 귀하의 소속회사로부터 당소의 의뢰인인 유티스타콤 코리아 유한회사로 이전되어 있는 상태에 있습니다. 이 발명에 대하여는 한국 특허출원을 하고 이어서 현재 미국 특허출원을 진행 중에 있는데, 미국의 특허제도에 따르면 출원시 발명자가 출원인이 되어야 하기 때문에 미국 특허청은 특허를 받을 수 있는 권리가 당소의 의뢰인에게 있다 하더라도 첨부된 바와 같은 서류에 출원인으로서 발명자가 직접 서명한 후 이를 제출하도록 요구하고 있습니다.

첨부된 서류 중 양도증(::ssignment)과 관련해서는, 귀하께서 이미 이 발명에 대한 권리를 양도한 상태이기 때문에 첨부된 양도증은 이를 확인하는 절차에 불과하며 새로이 무언가를 양도하는 것은 아님을 알려드립니다. 발명자 선언서(declaration)는 귀하께서 이 발명의 발명자임을 선서하는 내용으로 되어 있습니다.

이와 같은 사정으로 첨부 서류를 보내드리오니 <u>서명 후 당소로 반송하여 주시기를</u> 부탁드립니다. 반송은 퀵서비스(착불) 등 귀하께서 편한 방법으로 아래의 당소 주소로 해 주시고 어떤 경우에든 당소에서 비용을 부담할 것이오니 비용 영수증 등도 함께 반송하여 주시면 감사하겠습니다.

반송 주소: 서울시 종로구 신문로 1가 226 홍국생명빌딩 9층 김.장특허법률사무소 (우편번호 110-786)

발명의 명칭: METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN AN BSC AND A BTS IN AN EV-DO SYSTEM

-담당자: 임 회 재 차장/ 윤 지 훙 변리사

-전화: 02-2122-3822 / 02-2122-3515

-Mobile: 010-4787-7275

-E-maill: zhjim1@ip.kimchang.com

변리사 윤 지 홍

첨부있음.

이 무면물은 2006-03-0/ 제 10042201 호에 의하여 내용증명우편물로 발송하였음을 증명함

광회문 우체국장

DOC.1-3 Case No.: 03-434-0

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN A BSC AND A BTS IN AN EV-DO SYSTEM

the specification of which is attached hereto unless the following space is checked:

was filed on December 9, 2005 as United States Application Serial Number 10/560,142.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 (including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

	<u>Number</u>	Country	Day/Month/Year Filed
1.	PCT/KR2004/001856	PCT	23 July 2004
2.	10-2003-0051157	Korea	24 July 2003

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306	
Principal attorney or agent:	Robert J. Irvine, III
Telephone number: 312-913-0001	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



Full name of first inventor: Woo Seog KOO

2 FISHING

JA1078,21

Inventor's signature:	Date:	
Residence:	Jugong Apt. 115-303, 470, Anheung-dong, Icheon-si, Gyeonggi-do 467-712, Republic o Korea	ρf
Citizenship: Post Office Address:	Republic of Korea Jugong Apt. 115-303, 470, Anheung-dong, Icheon-si, Gyeonggi-do 467-712, Republic of Korea	of

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ASSIGNMENT

Case No.: 05-434-B Serial No.: 10/560,142

Inventor: Woo Seog KOO

Date of Execution of Application:

Filing Date: December 9, 2005

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to:

UTSTARCOM KOREA LIMITED

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN A BSC AND A BTS IN AN EV-DO SYSTEM

and identified as:

Case No. 05-434-B

in the offices of McDonnell Boehnen Hulbert & Berghoff LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrants himself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.



For said considerations the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

之本的类科

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WITNESS my hand and seal this day of	<u>, 2006</u> .
	Woo Seog KOO
State of	
County of	
The foregoing instrument was acknowled	ged before me this day of
, by	
	NOTARY PUBLIC

社 外 秘

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			l 채널카드 간의 ATM 트래픽 채널 패스 설정 방법		
발	207 00	브 바면의 Ougloomm의 EV-NO 시스템	을 그가으로 ATM 통신망을 기반으로 하여 상용화하는		
명		과정에서 설계 및 구현된 제어국의	SF 블록과 기지국의 재덜카드 플록(HUCA)간의 AIM 페드 [
자		설정 및 패스 설정을 위한 정보 교환	한 방법에 관한 내용을 특허로 한다.		
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		이론상 실현은 가능하나, 실험계획은 없슴	□ 1점					
:		테스트 하려면 관련기술의 발전이 요구됨	☑ 2점					
	실현가능성	테스트중이거나 예정임	□ 3점					
		양호한 테스트 결과 얻음(자료첨부 가능)	□ 5점					
		현재 사업화 준비중 또는 실시중임	□ 7점					
[HT]	÷ 71	개선된 효과의 수준은?	□ 3점 ☑ 2점 □ 1점					
발 명	효과	(공정 단순화, Yield, Cost 등의 측면)						
실		기술공개로 타사 권리확보를 방어하는 수준임	□ 1청					
장	발명중요도	양산에 적용(예정) 가능한 발명임	1☆ 3점					
וכן		반드시 필요한 독점 기술임	□ 5점					
재		평가결과	(j 이) 점					
사	조1※살기	 발명 평가표는 반드시 실장이 직접 기재하시기 바랍!	LIL					
항	* '실현가능성"란에서 5점,7점에 해당된 발명은 증빙 자료가 반드시 필요 합니다.							
	※ 열년가당당 ਦ에서 3a,7a에 에당된 일당은 당당 자료가 받으시 일표 당이다. ※평가를 완료하신후 평가결과를 기입 바랍니다.							
	< 외국출원 평가내용 >							
	발명의	*적용제품:	*복수제품에 적용되는 경우 전부					
	1	*관련기술:	기재하시기 바라며, 향 후 적용					
	현 황	*적용시기:	제풍경우 예상시점을 기재요망					
		□ 절대 필요	출원희망국가					
		□ 국내출원후 1년간 관망	1순위					
		선 필요 없음	2순위					
		□ 개별국출원, □ EPO출원, □ PCT출원	3순위					
1		기술적측면	4순위					
		N. C.	5순위					
	אוווראַ		6순위					
	평가내용		7순위					
			8순위					
		<u>경제적측면</u>	평가자					
			성명: 수 추수					
			직위: 기존					
			HB A					
			210					

社 外 秘

												<u> 社 外 秘</u>
	발		(한글) 구우석			(소프	프트웨	어) 개발	Group (ই	호처리)	실
	를 명 자	성명	(한문) 具佑奭			직위	대리		사번	H17203	TEL (031	-639-8012)
	1		(영문) Koo, Woo	Seog		주민등록	록No		6	71006-	•	
		E-mail	wskoo@hysyscomm.com	주소 (467-8	302)경기	이천 9	안홍4	170 주공	APT 115-303	서 명	
	ы		(한글)			()	개발 G	iroup ()실
	발 명 자	성명	(한문)			직위			사번		TEL ()
	2		(영문)			주민등	록No			-	·	
발 명 자		E-mail		주소 (-)					서 명	
	血		(한글)			()	개발 0	Group (,)실
인 적	를 명 자	성명	(한문)			직위			사번		TEL ()
사 항	3		(영문)			주민등	록No			<u>-</u>		
		E-mail		주소 (-)					서 명	
	발		(한글)			()	개발 (Group (,)실
	명자	성명	(한문)			직위			사번	L.,	TEL ()
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	박		(한글)			()	개발 (Group ()실
	발 명 자	성명	(한문)	·		직위			사번		TEL ()
	5		(영문)			주민등	록No			-		
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	발		(한글)			()	개발 (Group (<u></u>)실
	명자	성명	(한문)			직위			사번		TEL ()
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		E-mail		주소 ((–)					서 명	4

^{㈜1.}주소는 상세히 기재하시고, E-mail은 반드시 *회사계정*으로 기재하시기 바람.

provide the fact the second of the second of

^{2.}영문기재시 Fullname을 기재하시기 바람.

발명의 명세서

1. 발명의 명칭

EV-DO 시스템의 제어국의 SF와 기지국의 채널카드 간의 ATM 트래픽 채널 패스 설정 방법

2. 발명의 상세한 설명

1)산업상의 이용분야

ATM 망을 기반으로 하는 EV-DO 시스템에서 기지국와 제어국간 ATM 트래픽 패스 설정에 이용할 수 있다.

2)기술의 설명 및 그 문제점

EV-DO 시스템의 초기 모델인 Qualcomm 사의 EV-DO 제품은 IP 통신망을 기반으로 설계 및 구현되어 있다. 그러나 필요에 따라 다른 프로토콜 인터페이스를 기반으로 통신을 처리할 필요가 있다. 특히 ATM 망을 기반으로 통신을 설정하는 경우 모든 것이 새롭게 설계 구현되어야 한다.

본 발명은 Qualcomm 의 EV-DO 시스템을 근간으로 ATM 통신망을 기반으로 하여 상용화하는 과정에서설계 및 구현된 제어국의 SF 블록과 기지국의 채널카드 블록(HCCA)간의 ATM 패스 설정 및 패스 설정을 위한 정보 교횐 방법에 관한 내용을 특허로 한다.

3) 문제점을 해결하기 위한 본 발명의 기술적 원리

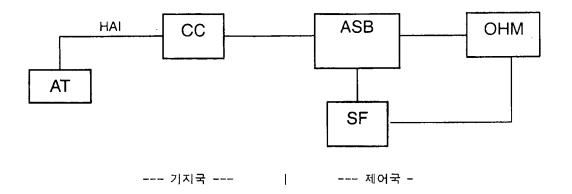
본 발명의 기술적 원리는 기존의 기지국과 제어국간의 메시지를 변경하고 추가하여 해당 ATM 패스 정보 용 추가로 교환하는 방법을 이용하고 있다. 즉. 제어국 SF 불록는 기지국의 채널카드와 ATM 패스를 설정학 위하여 채널카드의 ATM 패스 정보가 필요하다. 그래서 기존 메시지를 최대한 반영하고 새롭게 메시지를 추 가하여 ATM 패스 정보를 교환한 다음 ATM 경로를 동적으로 세팅한다.

4)본 발명의 구성 및 그 전반적인 동작설명

1. 전체 시스템 구조

EV-DO 시스템의 SF 블록은 제어국에 위치하고 있다. 채널카드 블록(HCCA)는 기지국에 위치하고 있다. 채널카드 블록은 단말기(AT: Access Terminal)와 SF 블록간의 중계 역활을 한다.

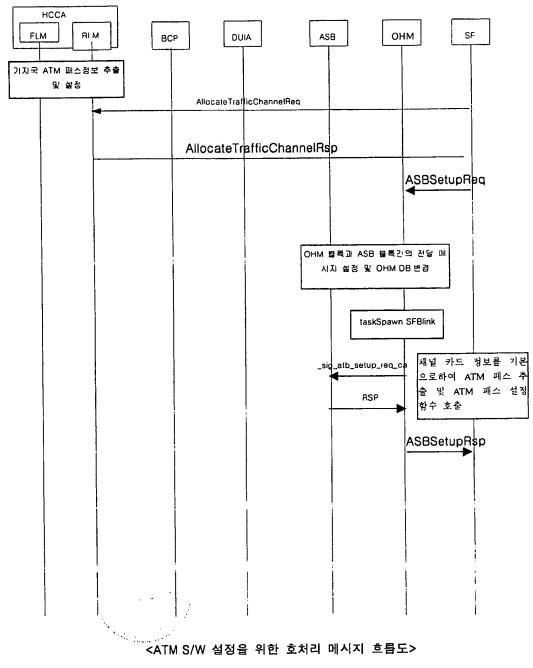
SF 와 채널카드 블록 및 기타 엔티티 간의 상호 관계는 다음과 같다.



<SF, CC, OHM, ASB(ATM Swtich Block) 관계도>

전체 시스템 구성 중 기지국의 ATM 설정과 제어국의 ATM 패스 설정이 필요한데, 본 발명에서는 제어국의 ATM 패스설정에 관한 내용만 발명으로 한다.

다음 호처리 흐름도는 단말로부터의 호 설정 메시지를 수신하여 처리하는 과정 중 ATM 패스 설정을 위 한 메시지 흐름도를 중심으로 표현한 내용이다. (굵은 표시 메시지가 추가 및 변경된 호처리 메시지)



3. 블록간 메시지

3.1 AllocateTrafficChannelRsp Message (변경된 메시지)

전송방향 : 기지국(채널블록) → 제어국(SF블록)

Type	Attribute	Value
word16	functionId	2501
word32	callid	
word16	RSMId	0 ~ 7
word16	pilotOffset	
byte	status	
byte	powerControlBitNumber	
word32	FLMIPAddress	
word16	ftcServerPort	
word32	RLMIPAddress	
word16	rxcServerPort	
추가 항목		
byte	bcpld	0 ~ 64
byte	btsSectorldx	0 ~ 2
byte	ltc_ccld	0 ~ 1
byte	ftc_celd	0 ~ 64
byte	ftcBaiald	0 ~ 1
byte	ftcLinkld	0 ~ 7
byte	rxc_ccld	0 ~ 1
byte	rxc_celd	0 ~ 64
byte	rxcBaiald	0 ~ 1
byte	rxcLinkld	0 ~ 7

3.2 ASBSetupReq (신규 메시지)

전송방향 : 제어국(SF 블록) → 제어국(OHM 블록)

Туре	Attribute	Value
word16	Rsmld	0 ~ 7
byte	Bcpld	0 ~ 64
byte	SectorId	0 ~ 2
byte	FtcCcld	0 ~ 1
byte	FtcCeld	0 ~ 64
byte	FtcBaiald Programme 1	0 ~ 1
byte	FtcBlinkld	0 ~ 7
byte	FtcSfPortId	0 ~ 2
byte	RxcCcld	0 ~ 1
byte	RxcCeld	0 ~ 64
byte	RxcBaiald	0 ~ 1
byte	N/ RxcBlinkId	0 ~ 7
byte	RxcSfPortId	0 ~ 2

3.3 ASBSetupRsp (신규 메시지)

전송방향 : 제어국(SF 블록) ← 제어국(OHM 블록)

Type	Attribute	Value 0 ~ 7			
word16	Rsmld				
byte	Result	0: Fail, 1:Success			
word16	FtcStToAtbVpi	0 ~ 512			
word16	FtcSfToAtbVci	0 ~1024			
word16	RxcSfToAtbVpi	0 ~ 512			
word16	RxcSfToATbVci	0 ~ 1024			

5)본 발명의 다른 실시예

없음.

6)본 발명의 효과

EV-DO 시스템을 ATM 통신망을 기반으로 하는 통신망에서 기지국과 제어국간에 ATM 패스 설정할 때 이용할 수 있다. IP 기반의 통신망에서 ATM 기반의 통신망으로 전환할 때 최소의 변경으로 가능하다.

3.발명의 권리보호 범위

본 발명 전체, ATM 인터페이스 설정을 위하여 추가 변경된 메시지 부분, ATM 경로 설정을 위하여 추가된 블로간의 메시지 부분.

4.도면의 간단한 설명

없음.

EXHIBIT 2

[E-mail to the inventor Woo Seog Koo from K&C staff, Jiwon Lim]

From: zjwlim (Ji-Won Lim) Date: Mar 8, 2006 3:12 PM To: wskoo@msn.com

Cc: zhjim1(Hee-Jae Im); jhyoon (Jee-Hong Yoon)

Subject: [To. Mr. Woo Seog Koo] An announcement from Law offices of Kim & Chang Attachment(s): FE241488-WSK-LETTER.pdf; FE241488-WSK-SIGNATURE

DOCUMENTS.pdf; FE241488-WSK-INVENTOR'S DECLARATION.pdf

To. Woo Seogn Koo (e-mail: wskoo@msn.com)

Jugong Apt. 115-303, 470 Anheung-dong, Icheon-si, Gyeonggi-do 467-712,

Republic of Korea

Re. Declaration and Power of Attorney and Assignment to be filed with U.S. Patent and Trademark Office (U.S. Serial No. 10/560,142)

K&C Ref.: GP048360

Dear Mr. Koo,

Hello. This is an announcement from Kim & Chang Law Offices.

Enclosed herewith please find scanned copies of our letter dated March 7, 2006 sent to you via content-certified mail. Please review the attached documents. When you receive the original documents, please sign and date the marked portions, and return them to us.

Thank you for your cooperation in this matter.

Law Offices of Kim & Chang Attorney Jee Hong YOON (Tel. 82-2-2122-3515) Manager Hee Jae IM (Tel. 82-2-2122-3822)

For more information regarding the documents, please contact Jiwon Lim (Tel. 82-2-2122-3838)

Ji-Won Lim zjwlim@ip.kimchang.com

KIM & CHANG

Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea

Tel.: (822) 764-8855 / (822) 2122-3900 (Operator) Fax.: (822) 741-0328 / (822) 745-5954 / (822) 763-7434 Information in this e-mail is intended for the exclusive use of the individual or entity named above and may constitute information that is privileged or confidential or otherwise protected from disclosure. Dissemination, distribution, forwarding or copying of this e-mail by anyone other than the intended recipient is prohibited. If you have received this e-mail in error, please notify us immediately by telephone or e-mail (all@ip.kimchang.com) and completely delete or destroy any and all electronic or other copies of the original message and any attachments.

zjwlim (Ji-Won Lim)

보낸 사람: zjwlim (Ji-Won Lim)

보낸 날짜: 2006년 3월 8일 수요일 오후 3:12

받는 사람: 'wskoo@msn.com'

참조: jhyoon (Jee-Hong Yoon): zhjim1(Hee-Jae lm)

제목: [구우석님] 김.장법률사무소입니다.

점부 파일: FE241488-구우석-안내문.pdf: FE241488-구우석-서명서류.pdf: FE241488-구우석-발명신고.pdf

수 신:구우석님

경기도 이천시 안흥동 470 주공아파트 115동 303호 (우.467-712)

E-mail: wskoo@msn.com

제 목: 미국 특허청 제출용 서명서류 송부의 건 (U.S. Serial No. 10/560,142)

당소 정리 번호 : GP048360

안녕하세요. 김장법률사무소 입니다.

2006년 3월 7일자로 우편발송(내용증명)한 서신의 사본을 스캔하여 첨부합니다. 본건과 관련한 상세한 사항은 첨부한 서신을 참조하시고, 우편으로 발송된 서신 원본을 받으시면 해당 서류에 서명하신 후 당소에 반송해주 시면 감사하겠습니다

귀하의 협조에 깊은 감사드립니다. 김.장특허법률사무소 변리사 윤 지 홍 (전화 02-2122-3515) 차장 임 희 재 (전화 02-2122-3822)

첨부있음.

(서명서류 관련 담당자: 과장 임 지 원 전화 02-2122-3838)

임지원(Ji-Won Lim) zjwlim@ip.kimchang.com 직통: (02) 2122 3838

金·張 法律事務所

서울시 종로구 신문로 1가 226 홍국생명빌딩 9층 우편번호 110-786

전화: (02) 764-8855 / (02) 2122-3900 (대표)

팩스: (02) 741-0328 / (02) 745-5954 / (02) 763-7434

위 전자우편에 포함된 정보는 위에 기재된 수신인만을 위해 발송되는 것으로서 보안을 유지해야 하는 정보 및 법률상 또는 다른 사유로 인하여 공개가 금지된 정보가 들어 있을 수 있습니다. 귀하가 이 전자우편의 지정 수 신인이 아니면 이를 무단으로 보유, 전송, 배포할 수 없으며, 일부의 내용이라도 공개, 복사해서는 안됩니다. 그 러므로, 잘못 수신된 경우에는 즉시 전화 또는 전자우편 주소(all@ip.kimchang.com)로 연락하여 주시고, 원본 및 사본과 그에 따른 첨부 문서를 모두 삭제하여 주시기 바랍니다.

EXHIBIT 3

Incorrect address

☐ Recipient refused to accept package

[Reason for Return]
☐ Recipient not present ☑ Recipient has moved
☐ Recipient does not reside at indicated address

Kim & Chang Mr. Woo Seog Koo Jugong Apt. 115-303, 470 Anheung-dong, Icheon-si, Gyeonggi-do 467-712, Republic of Korea [Mail Return Notice by Post Office] ☑ 1st delivery date: 2006-03-07 The returned mail will be stored in the Post Office by 2006-03-8 From To

[Translation]

KIM & CHANG

Hungkuk Life Insurance Building, 9F 226 Sinmunno 1-ga, Jongno-gu Seoul 110-786, Korea

TEL: (82-2)764-8855/2122-3900 FAX: (82-2)741-0328/745-5954/763-7434 E-MAIL: all@ip.kimchang.com www.ip.kimchang.com

VIA AIR MAIL



खाड अस्य एड्ड 40 देश न् १ ५ ५ भारेन 1155 3633

41-112

PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket No. 05-434-B)

In re Ap	pplication of:)
	Woo Seog Koo) Examiner: TBA
	cional Application No.: PCT/KR2004/01856 plication No.: 10/560,142) Group Art Unit: 2616) Confirmation No. 1170
	tional Filing Date: July 23, 2004 ing Date: December 9, 2005)))
For:	Method for Establishing an ATM Traffic Channel Path Between a BSC and a BTS In An EV-DO System)))

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

STATEMENT ESTABLISHING PROPRIETARY INTEREST BY PERSON SIGNING ON BEHALF OF NONSIGNING INVENTOR AND STATEMENT UNDER 37 C.F.R. § 3.73(B)

UTStarcom, Inc. has a sole proprietary interest in the present application. The invention, entitled "Method for Establishing an ATM Traffic Channel Path Between a BSC and a BTS In An EV-DO System," was originally assigned by the inventor to Hyundai Syscomm on November 29, 2002, as part of Hyundai Syscomm's employee invention compensation policy, and was filed as Korean National Application Number 2003-0051157 (Exhibit A). On April 27, 2004, UTStarcom, Inc., through its wholly owned subsidiary in Korea, UTStarcom Korea Limited, acquired Hyundai Syscomm's Intellectual Property Portfolio, including the rights to the above-referenced application, corresponding to Korean National Application Number 2003-0051157 (Exhibit B, page 45 of 46, entry number 1287). I establish this

proprietary interest by attaching a copy of the assignment of this invention by the nonsigning

inventor to Hyundai Syscomm, Inc. recorded in reel number 018435 and frame number 0790

(Exhibit A), and a copy of the assignment of this invention by Hyundai Syscomm, Inc. to

UTStarcom Korea Limited recorded in reel number 018424 and frame number 0902 (Exhibit

B). As such, UTStarcom, Inc. is presently the assignee and owner of the rights to the above-

referenced application.

This STATEMENT ESTABLISHING PROPRIETARY INTEREST BY PERSON SIGNING ON

BEHALF OF NONSIGNING INVENTOR is made by Robert J. Irvine, III, a person authorized to

act on behalf assignee UTStarcom, Inc.

Respectfully submitted,

Date: October 27, 2006

Robert J. Irvine III

Registration No. 41,865

McDonnell Boehnen Hulbert & Berghoff LLP

300 South Wacker Drive, Ste. 3100

Chicago, Il 60606 Tel: 312 913 0001

Fax: 312 913 0002

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 25, 2006

PTAS

500169718A

MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 SOUTH WACKER DRIVE ROBERT J. IRVINE III CHICAGO, IL 60606

500169718A

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RECORDATION DATE: 10/25/2006

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 05-434-B

ASSIGNOR:

KOO, WOO SEOG

DOC DATE: 11/29/2002

ASSIGNEE:

HYUNDAI SYSCOMM, INC.
SAN 136-1, AMI-RI, BUBAL-EUB,
ICHEON-SI
GYEONGGI-DO, DEM REP OF KOREA

467-701

018435/0790 PAGE 2

SERIAL NUMBER: 10560142 FILING DATE: PATENT NUMBER: ISSUE DATE:
TITLE: METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN A BSC

AND A BTS IN AN EV-DO SYSTEM

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1

10/25/2006 500169718

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

	Name	Execution Date
Woo Seog Koo		11/29/2002

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PROPERTY NUMBERS Total: 1

Property Type		Number
Application Number:	10560142	

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HYUNDAI SYSCOMM

Confidential

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Invention Team	Positio Nam		L/KOO Voo Seog	CJ/LIM, Sung Hwan	BJ/HWA Jong Ha		<u></u>			,		aten	Position / Name	SW/LEE, Chun Mi	DL/YOON, Hyoung Jin	
	Date	•	Nov. 29	Nov. 29	Nov.	29	L	С	ont	rol No.]		Date			
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Under the provisions of the employee's invention compensation policy, I request to proceed with the filing/registration of my invention and to assign its rights for domestic and international registrations.																
		tle of th		METHOD OF SETTING ATM TRAFFIC CHANNEL PATH BETWEEN CHANNEL CARD OF A BASE-STATION AND SF OF CONTROL-STATION IN EV-DO SYSTEM												
0 .	Summary of the Invention			The present invention relates to a method of setting ATM path between an SF block in a control-station and a channel card block (HCCA) in a base-station and a method of exchanging an information for setting the path, which are designed and implemented during commercialization based on ATM communication (not sure what this refers to), based on the EV-DO system of the Qualcomm.												
Inventor		(s) of Re Projects	1 6	EV-DO												
yy In		itus of the		☐ Conception ☐ Completed Design ☐ (In, Completed) Testing ☑ (Preparing, In) Business Implementation												
Statement by	l	ation Sta	atus of %	 ☑ Unpublished ☐ Expected to be Published ※ ☐ Published Earlier ※ ※ If checked, please specify the (scheduled) date of publication and related dissertations. [(Scheduled) Date of Publication: Month Day , 2000; Related dissertations:] 												
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	Filing Term								Reason for Filing							
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	Key Word															
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Patent Team				Request for Examination	I tiyes			☑ No		Strategic Pater for the Inv			-		14	
ate	Foreign Filing			☐ Yes ☐ No							Filing Rating		ting	В		
				Deliberation			Yes □ No			*Remarks for Agents writing the specification*						
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	< Evaluation of the Invention>					
	Category	Contents	Eva	luation Grade		
		Simple technology		☐ 1 point		
	Technology	Slightly higher technology	☑ 3 point			
		Advanced technology		☐ 5 point		
		Theoretically possible to implement, but has no plan for testing		☐ 1 point		
	Possible	Developments in related technologies are required first for testing			☑ 2 point	
	Implementation	Currently testing or planning to test	_		☐ 3 point	
		Tested and obtained satisfactory results (Attach Documents)			☐ 5 point	
		Preparing or currently implementing into one's business			☐ 7 point	
	Effects	What is the level of improvement? (Simplification of processes, yield, cost etc.)		□3	☑ 2 □ 1 point	
Team		Defending the rights in disclosing the technology			☐ 1 point	
n Te	Importance	Adaptable (or scheduled) for mass production		☑ 3 point		
ıtio		Absolutely necessary to obtain exclusive technology			☐ 5 point	
ıveı		Evaluation Result ention Evaluation form must be filled out by the manager of the investment of the in		(10) Point	
Statement by Manager of Invention	Impleme * The Eva	e is necessary for those inventions that are rated 5 or 7 points in the entation." luation Result should be filled in only after completing the Evaluation Foreign Filing>				
t by	Status of	* Applied Product:			olied to multiple	
nen	products to which the	* Related Technology:		products, list all product name: For future cases to be applied, mark the estimated period.		
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	ıtor		(Korean) 구우석	구우석 (Software) Development Group (Call Processing) Te					ım		
	Name (Korean) 구우석 (Chinese) 具佑奭 (English) Koo, Woo Seog E-mail wskoo@hysyscomm.com Addre		Posi	sition DL Employee H17203		Tel (031-639-	3012)				
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Note:

- 1. The full address and e-mail address are required.
- 2. Write the full name in English.

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	사내 직무발명보상기준에 의거하여 출원/등록을 의뢰하며,국내/외 등록권리를 양도합니다.											
발	발명	의 명칭	EV-DO 시스	.템의 제어	국의 SF	와 기계	기국의 채	널카드 간	의 ATM 트래	백 채널 🏻	개스 설정 변	법
명 자 기 재 사	改 到	의 개요	본 발명은 Qualcomm의 EV-DO 시스템을 근간으로 ATM 통신망을 기반으로 하여 상용회하는 과정에서 설계 및 구현된 제어국의 SF 블록과 기지국의 채널카드 블록(HCCA)간의 ATM 패 설정 및 패스 설정을 위한 정보 교환 방법에 관한 내용을 특허로 한다.									
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			이론상 실현은 가능하나, 실험계획은 없슴	□ 1점					
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			양호한 테스트 결과 얻음(자료첨부 가능)	5점					
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	교 명	요 꽈	(공정 단순화, Yield, Cost 등의 측면)						
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İ	사	주)※상기	 발명 평가표는 반드시 실장이 직접 기재하시기 바랍니	 니다.					
	항 주)※상기 발명 평가표는 반드시 실상이 직접 기재하시기 바랍니다. ※"실현가능성"란에서 5점,7점에 해당된 발명은 증빙 자료가 반드시 필요								
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		E-mail	wskoo@hysyscomm.com	주소 (467-	802)경	기 이천 9	안홍4	470 주공	BAPT 115-303	서 명	
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^{2.}영문기재시 Fullname을 기재하시기 바람.

발명의 명세서

1. 발명의 명칭

EV-DO 시스템의 제어국의 SF와 기지국의 채널카드 간의 ATM 트래픽 채널 패스 설정 방법

2.발명의 상세한 설명

1)산업상의 이용분야

ATM 망율 기반으로 하는 EV-DO 시스템에서 기지국와 제어국간 ATM 트래픽 패스 설정에 이용할 수 있다.

2)기술의 설명 및 그 문제점

EV-DO 시스템의 초기 모델인 Qualcomm 사의 EV-DO 제품은 IP 통신망을 기반으로 설계 및 구현되어 있다. 그러나 필요에 따라 다른 프로토콜 인터페이스를 기반으로 통신을 처리할 필요가 있다. 특히 ATM 망을 기반으로 통신을 설정하는 경우 모든 것이 새롭게 설계 구현되어야 한다.

본 발명은 Qualcomm 의 EV-DO 시스템을 근간으로 ATM 통신망을 기반으로 하여 상용화하는 과정에서 설계 및 구현된 제어국의 SF 블록과 기지국의 채널카드 블록(HCCA)간의 ATM 패스 설정 및 패스 설정을 위한 정보 교회 방법에 관한 내용을 특허로 한다.

3) 문제점을 해결하기 위한 본 발명의 기술적 원리

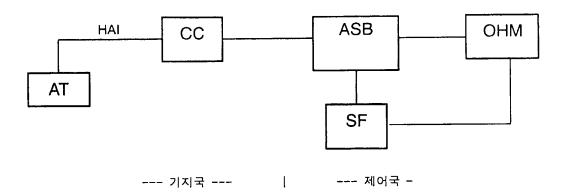
본 발명의 기술적 원리는 기존의 기지국과 제어국간의 메시지를 변경하고 추가하여 해당 ATM 패스 정보를 추가로 교환하는 방법을 이용하고 있다. 즉, 제어국 SF 블록는 기지국의 채널카드와 ATM 패스를 설정학위하여 채널카드의 ATM 패스 정보가 필요하다. 그래서 기존 메시지를 최대한 반영하고 새롭게 메시지를 추가하여 ATM 패스 정보를 교환한 다음 ATM 경로를 동적으로 세팅한다.

4)본 발명의 구성 및 그 전반적인 동작설명

1. 전체 시스템 구조

EV-DO 시스템의 SF 블록은 제어국에 위치하고 있다. 채널카드 블록(HCCA)는 기저국에 위치하고 있다. 채널카드 블록은 단말기(AT: Access Terminal)와 SF 블록간의 중계 역활을 한다.

SF와 채널카드 블록 및 기타 엔티티 간의 상호 관계는 다음과 같다.



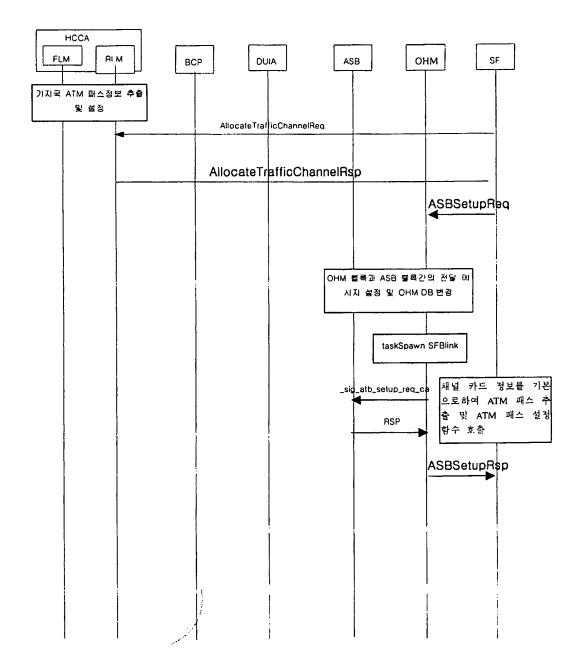
<SF, CC, OHM, ASB(ATM Swtich Block) 관계도>

전체 시스템 구성 중 기지국의 ATM 설정과 제어국의 ATM 패스 설정이 필요한데. 본 발명에서는 제어국의 ATM 패스설정에 관한 내용만 발명으로 한다.



2. SF S/W 블록간 메시지 흐름

다음 호처리 호름도는 단말로부터의 호 설정 메시지를 수신하여 처리하는 과정 중 ATM 패스 설정을 위한 메시지 흐름도를 중심으로 표현한 내용이다. (굵은 표시 메시지가 추가 및 변경된 호처리 메시지)



<ATM S/W 설정을 위한 호처리 메시지 흐름도>

3. 블록간 메시지

3.1 AllocateTrafficChannelRsp Message (변경된 메시지)

전송방향: 기지국(채널불록) → 제어국(SF 블록)

Type	Attribute	Value
word16	functionId	2501
word32	callld	
word16	RSMId	0 ~ 7
word16	pilotOffset	
byte	status	
byte	powerControlBitNumber	
word32	FLMIPAddress	
word16	ftcServerPort	
word32	RLMIPAddress	
word16	rxcServerPort	
추가 항목		
byte	bcpld	0 ~ 64
byte	btsSectorIdx	0 ~ 2
byte	ftc_ccld	0 ~ 1
byte	ftc_celd	0 ~ 64
byte	ftcBaiald	0 ~ 1
byte	ftcLinkld	0 ~ 7
byte	rxc_ccld	0 ~ 1
byte	rxc_celd	0 ~ 64
byte	rxcBaiald	0 ~ 1
byte	rxcLinkld	0 ~ 7

3.2 ASBSetupReq (신규 메시지)

전송방향 : 제어국(SF 블록) → 제어국(OHM 블록)

Type	Attribute	Value
word16	Rsmld	0 ~ 7
byte	Bcpld	0 ~ 64
byte	SectorId	0 ~ 2
byte	FicCold	0 ~ 1
byte	FtcCeld	0 ~ 64
byte	FtcBaiald	0 ~ 1
byte	FtcBlinkId	0 ~ 7
byte	FtcSfPortId	0 ~ 2
byte	RxcCcld	0 ~ 1
byte	RxcCeld	0 ~ 64
byte .	RxcBaiald	0 ~ 1
byte	RxcBlinkld	0 ~ 7
byte	RxcSfPortId	0 ~ 2

3.3 ASBSetupRsp (신규 메시지)

전송방향: 제어국(SF 블록) ← 제어국(OHM 블록)

Type	Attribute	Value
word16	Rsmld	0~7
byte	Result	0: Fail, 1:Success
word16	FtcSfToAtbVpi	0 ~ 512
word16	FtcSfToAtbVci	0~1024
word16	RxcSfToAtbVpi	0 ~ 512
word16	RxcSfToATbVci	0 ~ 1024

5)본 발명의 다른 실시예

없음.

6)본 발명의 효과

EV-DO 시스템을 ATM 통신망을 기반으로 하는 통신망에서 기지국과 제어국간에 ATM 패스 설정할 때 이용할 수 있다. IP 기반의 통신망에서 ATM 기반의 통신망으로 전환할 때 최소의 변경으로 가능하다.

3.발명의 권리보호 범위

본 발명 전체, ATM 인터페이스 설정을 위하여 추가 변경된 메시지 부분, ATM 경로 설정을 위하여 추가된 불로간의 메시지 부분.

4.도면의 간단한 설명

없음.



UNITED STATES PATENT AND TRADEMARK OFFICE

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OCTOBER 23, 2006

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ASSIGNOR:

HYUNDAI SYSCOMM, INC.

DOC DATE: 04/27/2004

ASSIGNEE:

UTSTARCOM KOREA LIMITED SAN 136-1, AMI-RI, BUBAL-EUB,

ICHEON-SI

KYONGKI-DO, DEM REP OF KOREA

467-701

SERIAL NUMBER: 10556274

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD FOR CALL COMPLETION SERVICE

018424/0902 PAGE 2

SERIAL NUMBER: 10545578 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: ATM SWITCH FOR USE IN W-CDMA

SERIAL NUMBER: 10545922 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: METHOD FOR STABILIZING BTS USING E1 TRUNK BOARD DUPLEXING OF BSC

SERIAL NUMBER: 10545505 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: METHOD FOR OPTIMIZING A DSP INPUT CLOCK USING A COMPARING/ANALYZING

CIRCUIT

SERIAL NUMBER: 10560142 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN A BSC

AND A BTS IN AN EV-DO SYSTEM

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

10/23/2006 500168441

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Nar	пе	Execution Date
Hyundai Syscomm, Inc.		04/27/2004

RECEIVING PARTY DATA

Name:	UTStarcom Korea Limited	
Street Address: San 136-1, Ami-Ri, Bubal-eub, Icheon-si		
City:	Kyongki-do	
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	
Postal Code:	467-701	

PROPERTY NUMBERS Total: 5

Property Type	Number
Application Number: .	10556274
Application Number:	10545578
Application Number:	10545922
Application Number:	10545505
Application Number:	10560142

CORRESPONDENCE DATA

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NAME OF SUBMITTER:

Robert J. Irvine III

Total Attachments: 49

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서윤·종로구 당수봉 160 (변호사회관 303호) [공증부 736-6604]

[제41호서식]

Registered No. 2004 - 6060

NOTARIAL CERTIFICATE

DAE JONG LEGAL CORPORATION

160, Dang Joo-Dong, Jong Ro-Ku, Seoul, Korea



KIM & CHANG

Hannuri Building, 219 Naeja-dong, Jongno-gu, Seoul 110-053, Korea
Telephone: (822) 764-8855 / 2122-3900 Fax: (822) 741-0328 / 745-5954 / 763-7434
E-Mail: all@ip.kimchang.com

DECLARATION

	•		•	•						
1	(1)	That my	name.	mailing	address	and citiz	zenship ai	re as stat	ed belov	v:

I, the undersigned, hereby declare:

- (2) That I am knowledgeable in both English and Korean, which are the languages used in relation to the Assignment filed with the Korean Intellectual Property Office, and
- (3) That I have translated said Assignment filed with the Korean Intellectual Property Office into English, a copy of which is attached hereto, and believe that said translation is a true and complete translation of the aforementioned Korean Assignment.

22nd day of November, 2004

Full name of the translator: LIM, Ji Won

Signature of the translator:

Mailing address: c/o Kim & Chang, Hannuri Building, 219 Naeja-dong,

Jongno-gu, Seoul 110-053, Korea, Republic of Korea

Citizenship: Republic of Korea

KIM & CHANG

[Translation]

ASSIGNMENT

By this instrument, <u>HYUNDAI SYSCOMM</u>, <u>INC.</u>, a corporation duly organized and existing under the Laws of Republic of Korea at San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-701, Republic of Korea do hereby declare that on April 27, 2004 it has assigned and transferred all rights, title and interest in the cases as listed in the attached Schedule I to <u>UTStarcom Korea Limited</u>, a corporation duly organized and existing under the laws of Republic of Korea at San 136-1, Ami-ri, Bubal-eub, Icheon-si, Kyongki-do 467-701, Republic of Korea

IN WITNESS WHEREOF,	State of the state
I have set my hand hereto this	27th day of April, 2004.
	Assignor: HYUNDAI SYSCOMM INC.
	By: (SEALED)
	Typed Name: <u>SEONG-IK JANG</u>
	Position: CEO & President

Schedule i

INU.	Norean Patent Apprication 190.
1	1996009524
2	1996025985
3	1997007238
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4/46

- Schedule i

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46/46

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